

**WHAT IS CLAIMED IS:**

1. A method of operating a computing device, comprising:
  - accessing a program, said program including a sequence of instructions;
  - parsing said program to validate said instructions;
  - generating an intermediate representation of said instructions of said program;
  - interfacing with said program's library of host objects; and
  - executing said intermediate representation to produce the results intended by said program.

2. The method of claim 1, wherein said program is a JavaScript program embedded in an HTML file.

3. The method of claim 1, wherein said parsing, said generating, said interfacing and said executing are implemented using the Java programming language and said implementations are accessible from an HTML browser, and wherein said browser is programmed to pass execution control over said program to said implementations.

4. The method of claim 1, wherein said parsing is implemented using the Java programming language, wherein said parsing implementation creates Java objects, containing field names and methods based on the input stream of said program.

5. The method of claim 4, wherein said Java objects are stored in hash tables in memory.

6. An information carrier medium that, when engaged in operable relation to a computer system, is configured to communicate to the system a representation of a software program, wherein the software program comprises instructions to interpret and execute programs by:

accessing a program, said program including a sequence of instructions;

parsing said program to validate said instructions;

generating an intermediate representation of said instructions of said program;

interfacing with said program's library of host objects; and

executing said intermediate representation to produce the results intended by said program.

7. The medium of claim 6, wherein said program is a JavaScript program embedded in an HTML file.

8. The medium of claim 6, wherein said parsing, said generating, said interfacing and said executing are implemented using the Java programming language and said implementations are accessible from an HTML browser, and wherein said browser is programmed to pass execution control over said program to said implementations.

9. The medium of claim 6, wherein said parsing is implemented using the Java programming language, wherein said parsing implementation creates Java objects, containing field names and methods based on the input stream of said program.

10. The medium of claim 9, wherein said Java objects are stored in hash tables in memory.

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